

Public Health Preparedness and Situational Awareness Report: #2019:52

Reporting for the week ending 12/28/19 (MMWR Week #52)

January 3rd, 2020

CURRENT HOMELAND SECURITY THREAT LEVELS

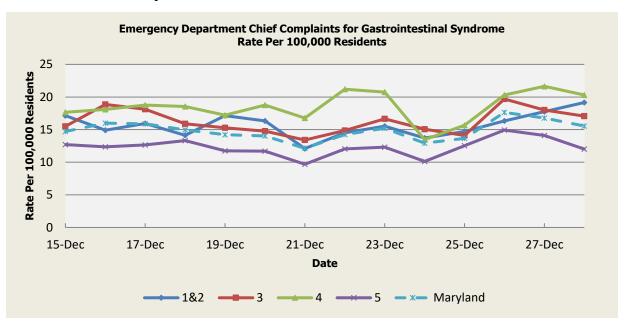
National: No Active Alerts

Maryland: Normal (MEMA status)

SYNDROMIC SURVEILLANCE REPORTS

ESSENCE (Electronic Surveillance System for the Early Notification of Community-based Epidemics): Graphical representation is provided for all syndromes (excluding the "Other" category; see Appendix 1) by Health and Medical Regions (See Appendix 2). Emergency department chief complaint data is presented as rates per 100,000 residents using data from the 2010 census. Electronic Surveillance System for the Early Notification of Community-Based Epidemics (ESSENCE). Baltimore, MD: Maryland Department of Health; 2019.

Gastrointestinal Syndrome

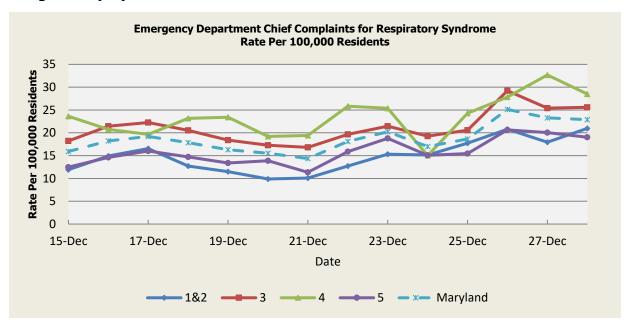


There was one (1) Gastrointestinal Syndrome outbreaks reported this week: one (1) outbreak of Gastroenteritis in a Nursing Home (Regions 1&2).

	Gastrointestinal Syndrome Baseline Data January 1, 2010 - Present					
Health Region	1&2	3	4	5	Maryland	
Mean Rate*	13.34	15.08	15.97	10.28	13.17	
Median Rate*	13.31	14.87	15.46	10.17	13.03	

^{*} Per 100,000 Residents

Respiratory Syndrome

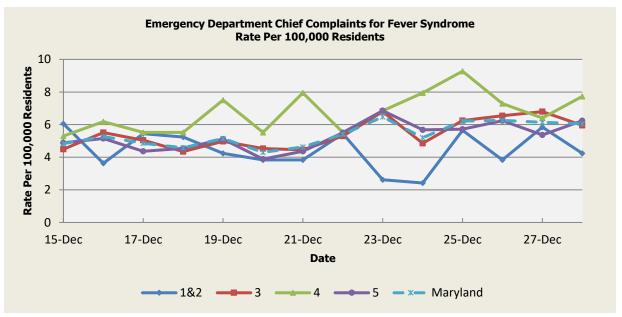


There were three (3) Respiratory Syndrome outbreaks reported this week: one (1) outbreak of INFLUENZA in a Youth Treatment Center (Region 5), one (1) outbreak of INFLUENZA in a Substance Abuse Treatment Center (Region 3), one (1) outbreak of ILI/RSV associated with a Daycare Centers (Region 3).

	Respiratory Syndrome Baseline Data January 1, 2010 - Present					
Health Region	1&2	3	4	5	Maryland	
Mean Rate*	12.64	14.77	15.12	9.99	12.79	
Median Rate*	12.10	14.21	14.35	9.65	12.33	

^{*} Per 100,000 Residents

Fever Syndrome

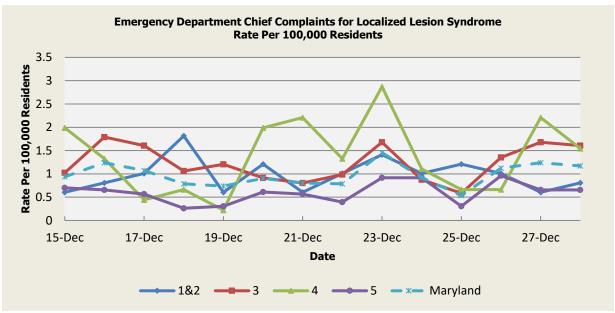


There were no Fever Syndrome outbreaks reported this week.

	Fever Syndrome Baseline Data January 1, 2010 - Present					
Health Region	1&2	3	4	5	Maryland	
Mean Rate*	3.09	3.91	4.14	3.05	3.53	
Median Rate*	3.02	3.80	3.97	2.92	3.41	

*Per 100,000 Residents

Localized Lesion Syndrome

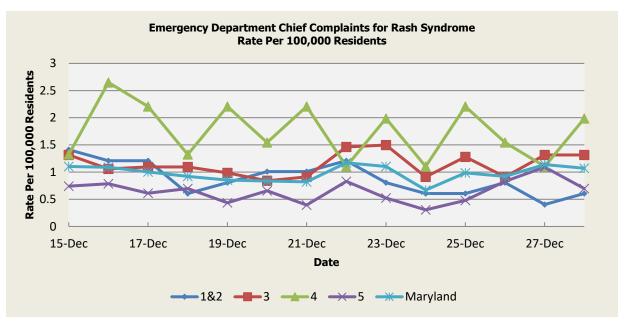


There were no Localized Lesion Syndrome outbreaks reported this week.

	Localized Lesion Syndrome Baseline Data January 1, 2010 - Present					
Health Region	1&2	Maryland				
Mean Rate*	1.17	1.78	2.04	0.91	1.41	
Median Rate*	1.01	1.72	1.99	0.87	1.36	

^{*} Per 100,000 Residents

Rash Syndrome

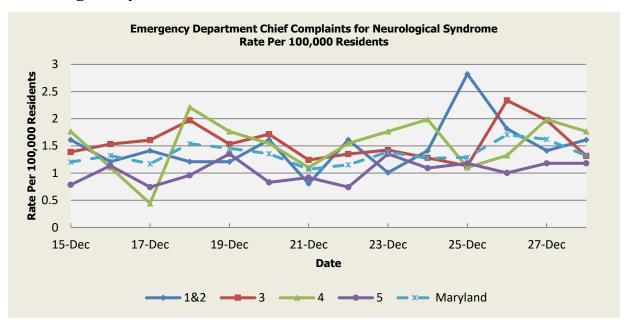


There were no Rash Syndrome outbreak reported this week

	Rash Syndrome Baseline Data January 1, 2010 - Present					
Health Region	1&2	3	4	5	Maryland	
Mean Rate*	1.25	1.67	1.76	0.97	1.37	
Median Rate*	1.21	1.61	1.77	0.92	1.32	

^{*} Per 100,000 Residents

Neurological Syndrome

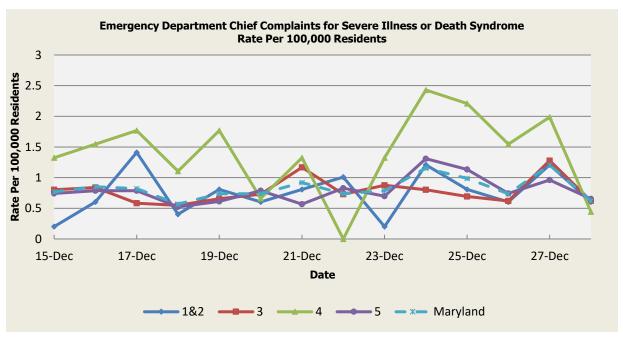


There were no Neurological Syndrome outbreaks reported this week.

	Neurological Syndrome Baseline Data January 1, 2010 - Present						
Health Region	1&2	3	4	5	Maryland		
Mean Rate*	0.80	0.97	0.88	0.62	0.81		
Median Rate*	0.81	0.88	0.88	0.57	0.74		

^{*} Per 100,000 Residents

Severe Illness or Death Syndrome



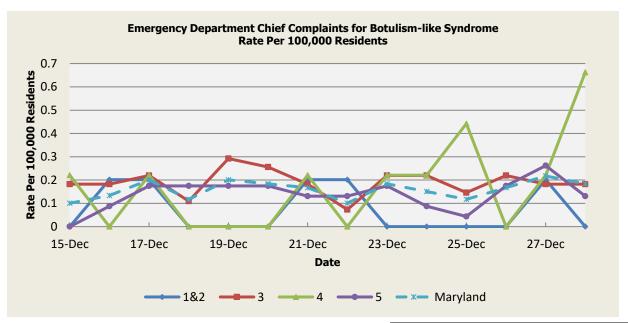
There were no Severe Illness or Death Syndrome outbreaks reported this week.

	Severe Illness or Death Syndrome Baseline Data January 1, 2010 - Present						
Health Region	1&2	3	4	5	Maryland		
Mean Rate*	0.66	0.89	0.84	0.52	0.73		
Median Rate*	0.60	0.84	0.66	0.48	0.70		

^{*} Per 100,000 Residents

SYNDROMES RELATED TO CATEGORY A AGENTS

Botulism-like Syndrome

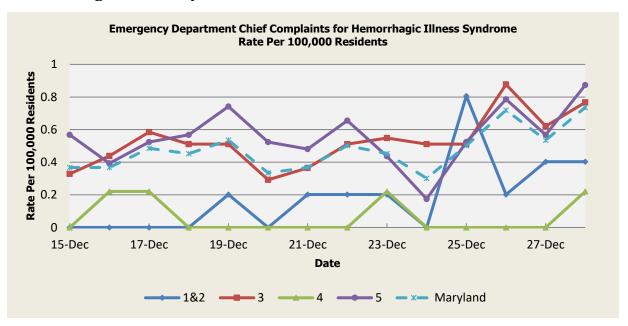


There was an appreciable increase above baseline in the rate of ED visits for Botulism-like Syndrome on 12/15 (Region 4), 12/16 (Regions 1&2), 12/17 (Regions 1&2,4,5), 12/18 (Region 5), 12/19 (Regions 3,5), 12/20 (Region 5), 12/21 (Regions 1&2,4), 12/22 (Regions 1&2), 12/23 (Regions 4,5), 12/24 (Region 4), 12/25 (Region 4), 12/26 (Region 5), 12/27 (Regions 1&2,4,5), and 12/28 (Region 4). These increases are not known to be associated with any outbreaks.

	Botulism-like Syndrome Baseline Data January 1, 2010 - Present					
Health Region	1&2	3	4	5	Maryland	
Mean Rate*	0.08	0.13	0.06	0.08	0.10	
Median Rate*	0.00	0.11	0.00	0.04	0.08	

^{*} Per 100,000 Residents

Hemorrhagic Illness Syndrome

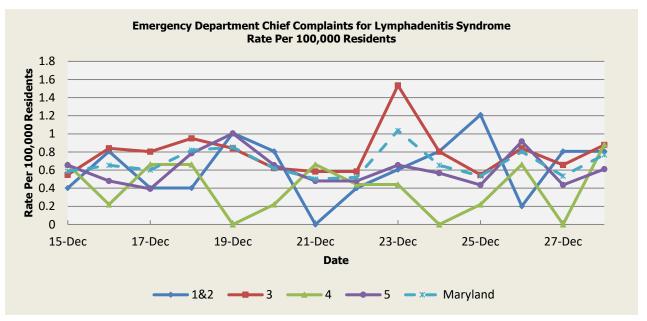


There was an appreciable increase above baseline in the rate of ED visits for Hemorrhagic Illness Syndrome on 12/15 (Regions 3,5), 12/16 (Regions 3,4,5), 12/17 (Regions 3,4,5), 12/18 (Regions 3,5), 12/19 (Regions 1&2,3,5), 12/20 (Region 5), 12/21 (Regions 1&2,3,5), 12/22 (Regions 1&2,3,5), 12/23 (Regions 1&2,3,4,5), 12/24 (Region 3), 12/25 (Regions 1&2,3,5), 12/26 (Regions 1&2,3,5), 12/27 ((Regions 1&2,3,5) and 12/28 (Regions 1&2,3,4,5). These increases are not known to be associated with any outbreaks.

	Hemorrhagic Illness Syndrome Baseline Data January 1, 2010 - Present						
Health Region	1&2	3	4	5	Maryland		
Mean Rate*	0.04	0.16	0.04	0.14	0.13		
Median Rate*	0.00	0.11	0.00	0.09	0.08		

^{*} Per 100,000 Residents

Lymphadenitis Syndrome



There was an appreciable increase above baseline in the rate of ED visits for Lymphadenitis Syndrome on 12/16 (Regions 1&2), 12/18 (Region 5), 12/19 (Regions 1&2,5), and 12/20 (Regions 1&2), 12/23 (Region 3), 12/24 (Regions 1&2), 12/25 (Regions 1&2), 12/26 (Region 5), 12/27 (Regions 1&2), and 12/28 (Regions 1&2,4). These increases are not known to be associated with any outbreaks.

	Lymphadenitis Syndrome Baseline Data January 1, 2010 - Present						
Health Region	1&2	3	4	5	Maryland		
Mean Rate*	0.39	0.60	0.41	0.39	0.49		
Median Rate*	0.40	0.51	0.44	0.35	0.44		

^{*} Per 100,000 Residents

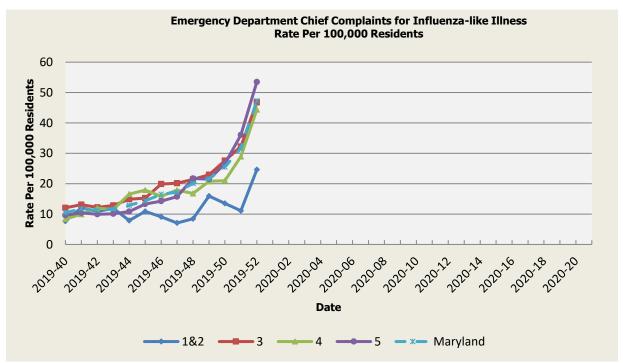
MARYLAND REPORTABLE DISEASE SURVEILLANCE

Reportable disease data from the National Electronic Disease Surveillance System (NEDSS) that feeds into ESSENCE is currently being validated. We will include these data in future reports once the validation process is complete.
(report continues on next page)

SYNDROMIC INFLUENZA SURVEILLANCE

Seasonal Influenza reporting occurs from MMWR Week 40 through MMWR Week 20 (October 2019 through May 2020). Seasonal Influenza activity for Week 52 was: High Activity and Widespread Geographic Activity.

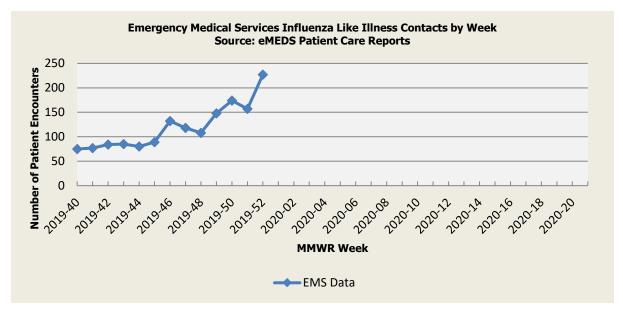
Influenza-like Illness



	Influenza-like Illness Baseline Data Week 1 2010 - Present					
Health Region	1&2	3	4	5	Maryland	
Mean Rate*	10.17	13.41	12.89	11.41	12.33	
Median Rate*	7.66	10.41	9.50	8.82	9.49	

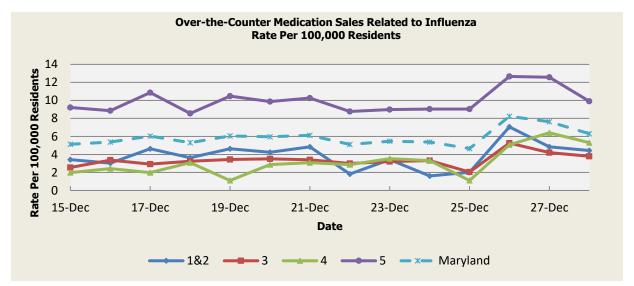
^{*} Per 100,000 Residents

Influenza-like Illness Contacts by Week



Disclaimer on eMEDS flu related data: These data are based on EMS Pre-hospital care reports where the EMS provider has selected "flu like illness" as a primary or secondary impression of a patient's illness. This impression is solely based on the signs and symptoms seen by the provider, not on any diagnostic tests. Since these numbers do not include all primary or secondary impressions that may be seen with influenza the actual numbers may be low. These data are reported for trending purposes only.

Over-the-Counter Influenza-Related Medication Sales

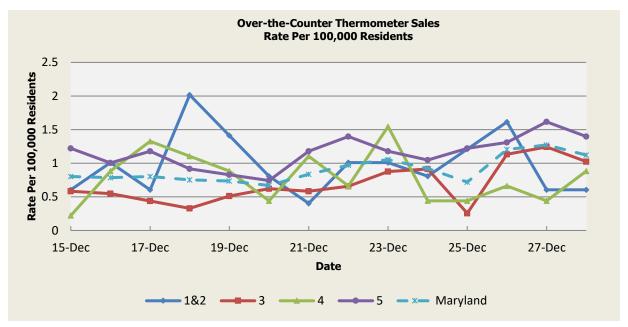


There was not an appreciable increase above baseline in the rate of OTC thermometer sales during this reporting period.

	OTC Medication Sales Baseline Data January 1, 2010 - Present				
Health Region	1&2	3	4	5	Maryland
Mean Rate*	3.44	4.41	2.66	7.77	5.48
Median Rate*	2.82	3.51	2.21	6.99	4.72

^{*} Per 100,000 Residents

Over-the-Counter Thermometer Sales



There was not an appreciable increase above baseline in the rate of OTC thermometer sales during this reporting period.

	Thermometer Sales Baseline Data January 1, 2010 - Present				
Health Region	1&2	3	4	5	Maryland
Mean Rate*	2.89	2.75	2.19	3.65	3.06
Median Rate*	2.62	2.67	1.99	3.58	3.03

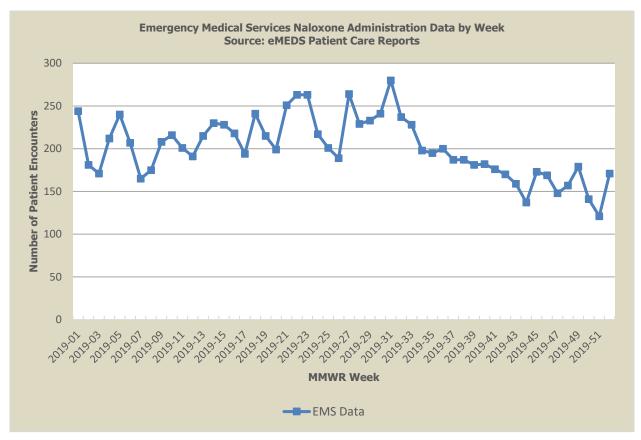
^{*} Per 100,000 Residents

SYNDROMIC OVERDOSE SURVEILLANCE

The purpose of this section is to characterize non-fatal ED visit trends for acute unintentional overdose by Heroin, Opioid or Unspecified substance among Maryland residents captured by ESSENCE data, including chief complaint and discharge diagnosis. ED visits that are identified as unintentional overdose by Heroin, Opioid or Unspecified substance include those with medical and non-medical use of a prescription Opioid or where the substance is not specified, given evidence that most fatal overdoses are Opioid-related.

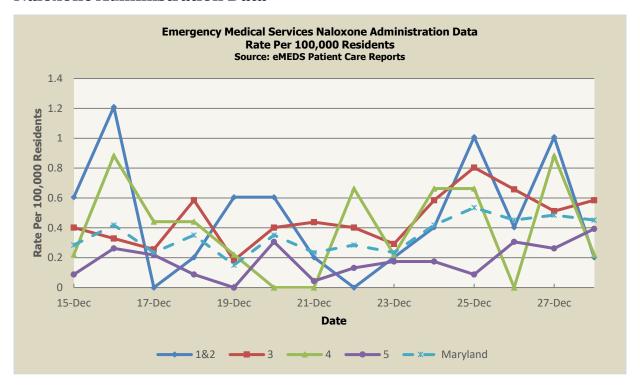
In preparation for the release of new ESSENCE queries for identifying heroin, opioid and all drug overdoses, please note that we have removed the data chart showing unintentional overdose rates by heroin, opioid, or unspecified substances. These new data, when available, will be presented below.

Naloxone Administration Data by Week



Disclaimer on eMEDS naloxone administration related data: These data are based on EMS Pre-hospital care reports where the EMS provider has documented that they administered naloxone. The administration of naloxone is based on the patient's signs and symptoms and not on any diagnostic tests. These data are reported for trending purposes only.

Naloxone Administration Data



Disclaimer on eMEDS Naloxone administration related data: These data are based on EMS Pre-hospital care reports where the EMS provider has documented that they administered naloxone. The administration of naloxone is based on the patient's signs and symptoms and not on any diagnostic tests. These data are reported for trending purposes only.

PANDEMIC INFLUENZA UPDATE / AVIAN INFLUENZA-RELATED REPORTS

WHO update: The current WHO phase of pandemic alert for avian influenza is ALERT. Currently, the avian influenza H5N1 virus continues to circulate in poultry in some countries, especially in Asia and northeast Africa. This virus continues to cause sporadic human infections with some instances of limited human-to-human transmission among very close contacts. There has been no sustained human-to-human or community-level transmission identified thus far.

Influenza A (H7N9) is one of a subgroup of influenza viruses that normally circulate among birds. Until recently, this virus had not been seen in people. However, human infections have now been detected. Presently, there is limited information about the scope of the disease the virus causes and about the source of exposure. The disease is of concern because most patients have been severely ill. There is no indication thus far that it can be transmitted between people, but both animal-to-human and human-to-human routes of transmission are being actively investigated.

Alert phase: This is the phase when influenza caused by a new subtype has been identified in humans. Increased vigilance and careful risk assessment, at local, national, and global levels are characteristic of this phase. If the risk assessments indicate that the new virus is not developing into a pandemic strain, a de-escalation of activities towards those in the interpandemic phase may occur. As of January 2nd, 2020, the WHO-confirmed global total (2003-2020) of human cases of H5N1 avian influenza virus infection stands at 861, of which 455 have been fatal. Thus, the case fatality rate for human H5N1 is approximately 53%.

AVIAN INFLUENZA

AVIAN INFLUENZA (POLAND), 2 Jan 2010, Information received on [and dated] 2 Jan 2020 from Dr Bogdan Konopka, Chief Veterinary Officer, Ministry of Agriculture and Rural Development, General Veterinary Inspectorate, Warszaw, Poland. Read More: https://promedmail.org/promed-post/?id=6867443

AVIAN INFLUENZA (**NIGERIA**), 24 Dec 2019, Information received on [and dated] 23 Dec 2019 from Dr Olaniran Alabi, director, chief veterinary officer, Veterinary and Pest Control Services, Federal Ministry of Agriculture and Rural Development, Abuja, Nigeria. Read More: https://promedmail.org/promed-post/?id=6854972

HUMAN AVIAN INFLUENZA

There were no relevant human avian influenza reports this week

NATIONAL DISEASE REPORTS

LEGIONELLOSIS (ILLINOIS), 2 Jan 2019, The Illinois Department of Public Health is investigating a single new case of legionnaires' disease. Tuesday [31 Dec 2019], staff is

revealing how policies helped them respond to this case they say: quickly and efficiently. Read More: https://promedmail.org/promed-post/?id=6866712

RABIES (MULTISTATE), 26 Dec 2019, A mother and her young child who were attacked by a raccoon at a school bus stop last week are undergoing rabies treatment. The attack happened last Thursday [5 Dec 2019] at a bus stop off Georgetown Road in Weston. Read More: https://promedmail.org/promed-post/?id=6858881

INTERNATIONAL DISEASE REPORTS

RIFT VALLEY FEVER (UGANDA), 2 Jan 2019, A 2nd fatal human Rift Valley fever (RVF) case in recent weeks was reported in Uganda. According to the World Health Organization (WHO), the 2nd confirmed case of RVF was reported from Ntoroko district, Uganda. Read More: https://promedmail.org/promed-post/?id=6868323

PERTUSSIS UPDATE (CANADA), 2 Jan 2020, Several confirmed cases of whooping cough have been reported in Harnett County. Rebecca Campbell, the school nurse at Western Harnett High School, alerted parents to the outbreak. Read More: https://promedmail.org/promed-post/?id=6868270

UNDIAGNOSED PNEUMONIA (CHINA), 2 Jan 2020, The World Health Organization said it is in ongoing contact with authorities in China over an unidentified outbreak of viral pneumonia in the central city of Wuhan, amid concern it may have been transmitted from animals. Read More: https://promedmail.org/promed-post/?id=6866757

ANTHRAX (**ZIMBABWE**), 2 Jan 2019, Three people were diagnosed and treated for Anthrax in Mashonaland East's Bosha Clinic in Chikwaka after they had consumed the meat of a dead cattle the Herald reports. Read More: https://promedmail.org/promed-post/?id=6867615

LASSA FEVER (NIGERIA), 1 Jan 2020, In the reporting week 49 (2-8 Dec 2019), 13 new confirmed cases were reported from Ondo (11), Bauchi (1) and Gombe (1) states with 4 new deaths from Ondo (3) and Gombe (1) states. Read More: Read More: https://promedmail.org/promed-post/?id=6865640

YELLOW FEVER (NIGERIA), 1 Jan 2020, The World Health Organization (WHO) has confirmed 13 cases of yellow fever, which has resulted in 3 deaths in 4 local government areas of Plateau State. Read More: https://promedmail.org/promed-post/?id=6862783

POLIOMYELITIS UPDATE (**PAKISTAN**), 31 Dec 2019, [According to the End Polio Pakistan website, there were 2 newly confirmed cases reported from Khyber Pakhtunkhwa in the past 2 days, bringing the total number of polio cases attributable to WPV1 infection during 2019 to 117. Read More: https://promedmail.org/promed-post/?id=6865382

MONKEYPOX (**DEMOCRATIC REPUBLIC OF CONGO**), 29 Dec 2019, Since the beginning of 2019, a cumulative total of 5060 monkeypox cases, including 103 deaths (CFR [case-fatality rate] 2%), were reported from 18 provinces. In week 49 (week ending 8 Dec 2019),

56 cases and one death were reported nationally. Read More: https://promedmail.org/promed-post/?id=6868194

TUBERCULOSIS (**SWITZERLAND**), 29 Dec 2020, A 20-year-old contracted tuberculosis from smoking a trendy hookah pipe, doctors have warned. The unidentified patient, from Sweden [Switzerland?], rushed to hospital after coughing up blood following 3 months of chest pains and a high fever. Read More: https://promedmail.org/promed-post/?id=6862245

AFRICAN SWINE FEVER (ASIA), 26 Dec 2019, A Viet Nam-produced pork liver paste has been ordered to be taken off shelves in Taiwan and banned from import over African swine fever (ASF) contamination fears. Read More: https://promedmail.org/promed-post/?id=6858823

OTHER RESOURCES AND ARTICLES OF INTEREST

More information concerning Public Health and Emergency Preparedness can be found at the Office of Preparedness and Response website: http://preparedness.health.maryland.gov/ or follow us on Facebook at www.facebook.com/MarylandOPR.

More data and information on influenza can be found on the MDH website: http://phpa.health.maryland.gov/influenza/fluwatch/Pages/Home.aspx

Please participate in the Maryland Resident Influenza Tracking System (MRITS): http://flusurvey.health.maryland.gov

NOTE: This weekly review is a compilation of data from various surveillance systems, interpreted with a focus on a potential BT event. It is not meant to be inclusive of all epidemiology data available, nor is it meant to imply that every activity reported is a definitive BT event. International reports of outbreaks due to organisms on the CDC Critical Biological Agent list will also be reported. While not "secure", please handle this information in a professional manner. Please feel free to distribute within your organization, as you feel appropriate, to other professional staff involved in emergency preparedness and infection control.

For questions about the content of this review or if you have received this and do not wish to receive these weekly notices, please e-mail us. If you have information that is pertinent to this notification process, please send it to us to be included in the routine report.

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Appendix 1: ESSENCE Syndrome Definitions and Associated Category A Conditions

Syndrome	ESSENCE Definition	Category A Conditions
Botulism-like	(Botulism or (DifficultyFocusing and DifficultySpeaking) or (DifficultySpeaking and DifficultySwallowing) or (DifficultySwallowing and DifficultyFocusing) or DoubleVision or FacialParalysis or GuillainBarre or Ptosis) and not GeneralExclusions	Botulism
Fever	(Chills or (FeverPlus and (Drowsiness or Seizure)) or FeverOnly or SepsisGroup or ViralSyndrome) and not GeneralExclusions	N/A
Gastrointestinal	(AbdominalCramps or AbdominalPainGroup or Diarrhea or FoodPoisoning or Gastroenteritis or GIBleeding or Peritonitis or Vomiting) and not (GeneralExclusions or Gynecological or Obstetric or Reproductive or UrinaryTract)	Anthrax (gastrointestinal)
Hemorrhagic Illness	(FeverOrChills and (AcuteBloodAbnormalitiesGroup or BleedingFromMouth or BleedingGums or GIBleeding or Hematemesis or Hemoptysis or Nosebleed or Petechiae or Purpura)) and not GeneralExclusions	Viral Hemorrhagic Fever
Localized Lesion	(Boils or Bump or Carbuncle or DepressedUlcer or Eschar or Furuncle or InsectBite or SkinAbscess or (SkinSores and not AllOverBody) or SkinUlcer or SpiderBite) and not (GeneralExclusions or Decubitus or Diabetes or StasisUlcer)	Anthrax (cutaneous) Tularemia
Lymphadenitis	(BloodPoisoning or Bubo or CatScratchDisease or SwollenGlands) and not GeneralExclusions	Plague (bubonic)
Neurological	(([Age<75] and AlteredMentalStatus) or (FeverPlus and (Confusion or Drowsiness or Petechiae or StiffNeck)) or Delirium or Encephalitis or Meningitis or UnconsciousGroup) and not GeneralExclusions	N/A
Rash	(ChickenPox or Measles or RashGeneral or Roseola or (Rubella and not Pregnancy) or Shingles or (SkinSores and AllOverBody) or Smallpox) and not GeneralExclusions	Smallpox
Respiratory	(Anthrax or Bronchitis or (ChestPain and [Age<50]) or Cough or Croup or DifficultyBreathing or Hemothorax or Hypoxia or Influenza or Legionnaires or LowerRespiratoryInfection or Pleurisy or Pneumonia or RespiratoryDistress or RespiratoryFailure or RespiratorySyncytialVirus or RibPain or ShortnessOfBreath or Wheezing) and not (GeneralExclusions or Cardiac or (ChestPain and Musculoskeletal) or Hyperventilation or Pneumothorax)	Anthrax (inhalational) Tularemia Plague (pneumonic)
Severe Illness or Death	CardiacArrest or CodeGroup or DeathGroup or (Hypotension and FeverPlus) or RespiratoryArrest or SepsisGroup or Shock	N/A

Appendix 2: Maryland Health and Medical Region Definitions

Health and Medical Region	Counties Reporting to ESSENCE		
	Allegany County		
Pagions 1 & 2	Frederick County		
Regions 1 & 2	Garrett County		
	Washington County		
	Anne Arundel County		
	Baltimore City		
Region 3	Baltimore County		
Region 3	Carroll County		
	Harford County		
	Howard County		
	Caroline County		
	Cecil County		
	Dorchester County		
	Kent County		
Region 4	Queen Anne's County		
	Somerset County		
	Talbot County		
	Wicomico County		
	Worcester County		
	Calvert County		
	Charles County		
Region 5	Montgomery County		
	Prince George's County		
	St. Mary's County		

